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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|-----------------------|---------------------|------------------|
| 10/074,003 | 02/14/2002 | Warren Stuart Crippen | 2207/12663 | 6656 |

7590 10/20/2004
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Seventh floor
Los Angeles, CA 90025

| EXAMINER |
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PATEL, ISHWARBHAI B

| ART UNIT | PAPER NUMBER |
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2841

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

10/074,003

Applicant(s)

CRIPPEN, WARREN STUART

Examiner

Ishwar (I. B.) Patel

Art Unit

2841

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 28 September 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____.

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

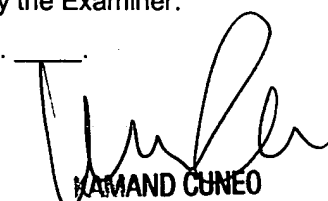
Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 10-17.

Claim(s) withdrawn from consideration: _____.

8. ☐ The drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____.
10. ☐ Other: _____


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Continuation of 5. does NOT place the application in condition for allowance because: Applicant's argument Van Pham et al., disclose neither the function nor the structure of a space transformer and is not designed to convert a micro pitch scale to a micro pitch scale, is not found persuasive. First, these are the structural claims and prior art is applied to the structure and not to the function. Further, surface 14, figure 3A and 4, is for connecting to the semiconductor die 50 and surface 16, figure 3B and 4, is for connecting to a substrate 70, which shows that the structure of Van Pham et al., is converting the spacing of pad, pitch on one suitable to a die to that on the other side suitable to substrate. Applicant further argues that in figure 4 of Van Pham et al., the contacts and spacing on the die side (arguably corresponding semiconductor side contact) having dimensions and spacing that are in fact larger (see space between contact 18) than the dimensions and spacing on the other side (in this case the substrate side), is not correct. Contrary to that it is explained in figure 3A, die side and figure 3B, substrate side, column 3, line 50-65, that pads 20 on the surface side 16, are arranged across the entire area of the bonding surface 16 and provides a much larger area within which the pads may be distributed than is the case with using only a narrow perimeter area on surface 14, die side, for pads 18, resulting bonding pads 20, figure 3B, appreciably large than contact pads 18, figure 3A. The prior art of Eldridge was used to have a further evidence of specific pitch dimensions on die side and the substrate side.